



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F, EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 2790-0314 FAX: 2790-0206

MIC MG
SCHOTTKY BARRIER RECTIFIER

SR1620 THRU SR1680

VOLTAGE RANGE
CURRENT

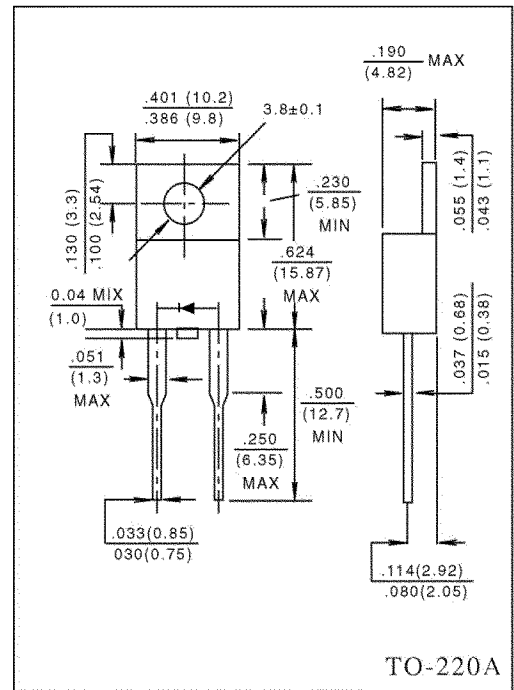
20 to 80 Volts
16 Ampere

FEATURES

- Fast switching.
- Low forward voltage, high current capability.
- Low power loss, high efficiency.
- High current surge capability.
- High temperature soldering guaranteed:
250°C/10 seconds, 0.16" (4.06mm) lead length from case.

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V - 0 rate flame retardant.
- Polarity: As marked.
- Lead: Plastic lead, solderable per MIL - STD - 202E method 208C
- Mounting position : Any, 5 in. - lbs. Torque max.
- Weight: 0.064 ounce, 1.81 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%

	SYMBOLS	SR 1620	SR 1630	SR 1635	SR 1640	SR 1645	SR 1650	SR 1660	SR 1680	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	35	40	45	50	60	80	Volts
Maximum RMS Voltage	V_{RMS}	14	21	25	28	32	35	42	56	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	35	40	45	50	60	80	Volts
Maximum Average Forward Rectified Current at	$I_{(AV)}$	16								Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	I_{FSM}	150								Amps
Maximum Instantaneous Forward Voltage at 16A (Note 1)	V_F	0.65			0.75		0.85			Volts
Maximum DC Reverse Current at rate DC blocking voltage (Note 1)	I_R	10								mA
		100								
Typical Junction Capacitance (Note 2)	C_j	800				600				pF
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	1.5								°C/W
Operating Temperature Range	T_J	(-65 to +125)				(-65 to +150)				°C
Storage Temperature Range	T_{STG}	(-65 to +150)								°C

NOTES:

1. Pulse test: 300 μ s pulse width, 1% duty cycle.
2. Measured at 1MHz and applied reverse voltage of 4.0 volts.
3. Thermal resistance from junction to case.
4. Suffix "R" for reverse polarity.



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RATINGS AND CHARACTERISTIC CURVES SR1620 THRU SR1680

FIG.1-TYPICAL FORWARD CURRENT
 DERATING CURVE

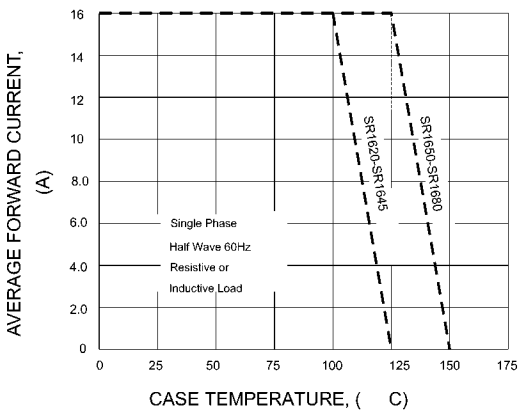


FIG.2-MAXIMUM NON-REPETITIVE PEAK
 FORWARD SURGE CURRENT

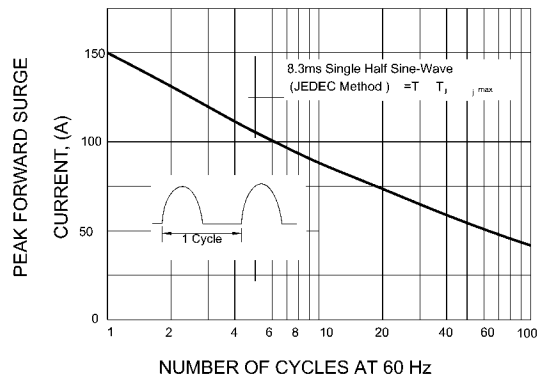


FIG.3-TYPICAL INSTANTANEOUS
 FORWARD CHARACTERISTICS

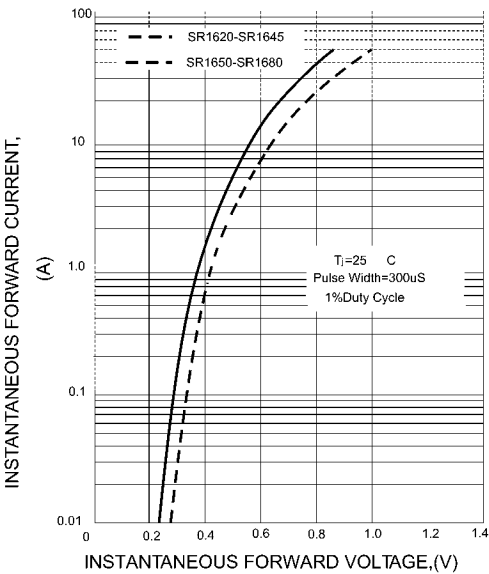


FIG.4-TYPICAL REVERSE
 CHARACTERISTICS

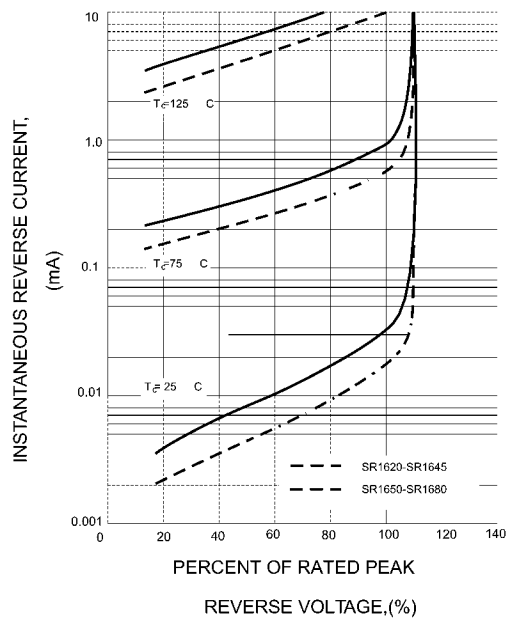


FIG.5-TYPICAL JUNCTION CAPACITANCE

